Water Technologies

Strantrol® 887 HRR® Control System

Product Data Sheet

SIEMENS

Description

The Strantrol® 887 High Resolution Redox® control system dramatically improves disinfection monitoring and control in industrial process and cooling water applications. Comprised of our industry leading sensor technology, innovative sample flowcell, unique control algorithms, and on-site service and support, the Strantrol® 887 controller is the benchmark for ORP monitoring and control worldwide.

Each unit is equipped with three relays that can be configured in any combination for control, alarm or sensor wash.

In a typical installation, the first relay is set to On/Off or Time-Based Proportional (TBP) control. Time-Based Proportional control enables simple chemical feeders to mimic the accuracy of more complex PID control.

The second relay can be configured to control a second feeder at an alternative setpoint, or to perform an automatic sensor wash function.

The third relay can be set as a master alarm reporting high, low, or overfeed conditions.

The unit's (4) 4-20mA outputs may be used for direct data recording or transmitting data to a computer or distributed control system.

Additionally, the Strantrol® 887 controller provides an external interrupt to accept a signal from a timer or sample stream flow switch, and a triggered input to accept a signal from a contacting water meter.

Benefits of the Strantrol® 887 Controller Include:

- Accurate and Reliable Redox Control
- Optional Sensor Wash and Flow Switch for Peak Performance and Safety
- User-Programmable Feed Modes to Meet Application Needs

Inputs

Sensor input: Isolated HRR® sensor
Range: -500 mV to +1000 mV
Sensing accuracy: ± .1% per year
Resolution: 1 mV

Digital Inputs: Contact Closure (Totalizer & ChemFeed trigger)

Sample Flow Switch (Blowdown & ChemFeed enable)

Outputs

Analog outputs: (4) Isolated fully rangeable 4-20mA up to 750 ohms with record and control capabilities

Three programmable relays for chemical control, alarm, sensor wash, or triggered timer function.
120/240 VAC, 50/60 Hz
Two 5 Amp, one 1 Amp
Resolution ± .5%

Ratings

ETL approved to UL® Standard 508A
CE approved for heavy industrial use
Voltage: 120/250 VAC, 50/60 Hz
Total Current: 12 amps

Enclosure

Rating: NEMA 4X (IP 66)
Dimensions: (H x W x D)
7.1" x 7.2" x 4.4" in
(180 x 182 x 111 mm)
Weight: 2.1 pounds (0.95 kg)
Material: UL® Listed Polycarbonate

Sample Flowcell

Design ensures sensor remains wetted at all times. Flowcell comes complete with fittings, including two isolation valves and a sample tap. Flowcell cover is clear permitting on-line inspection of sensor tip.

Material: Schedule 80 PVC
Pressure: Tested to 100 psig (6.8 bar)
Temperature: 120°F (48.8°C) (Max)
Cover: Clear Polycarbonate

User Interface

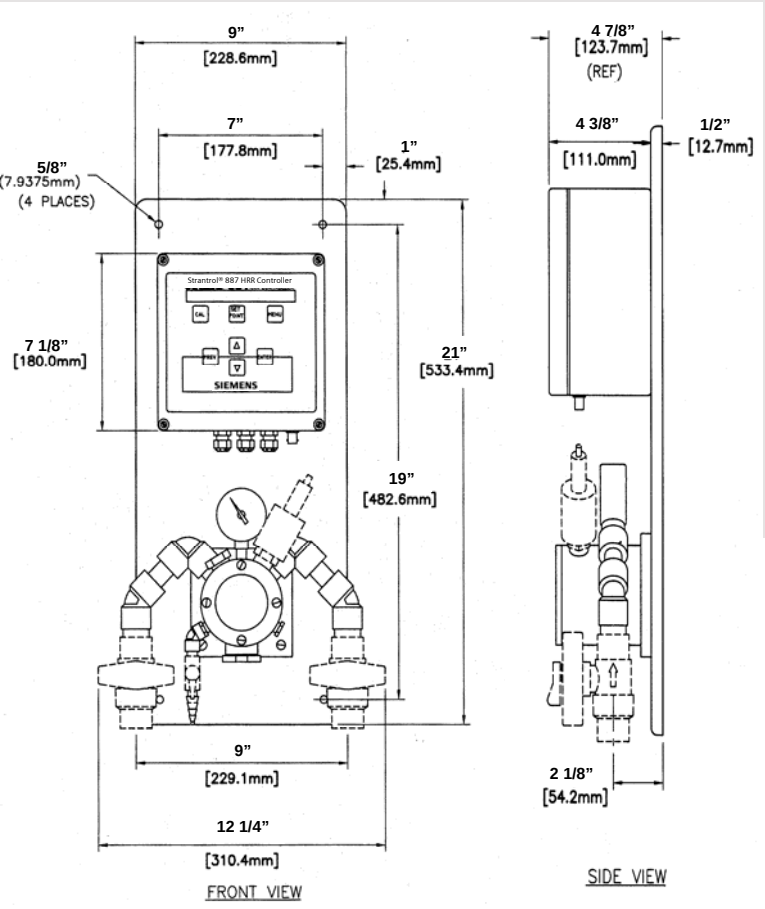
Display: 16 character backlit LCD display shows real time sensor readings, alarms, programming values and menus.

Keypad: 7 pressure sensitive keys for setting calibration, control setpoint, alarms, 4-20mA, triggered timer, totalizer, and sensor clean values. UP, DOWN, PREV, and ENTER keys for scrolling through menu and changing settings. CAL button for single point calibration. SETPOINT for changing the control value. MENU for more detailed configuration.

Options

Automatic sensor washing: Recommended for high TDS applications such as recirculated cooling water. On-line sensor washing is available by requesting the optional diaphragm pump and tank package (part no. 7149002).

Sample flow switch: The optional sample flow switch assures that when the sample stream is interrupted for any reason, the feed of chemicals is halted. This is a valuable safety device as well as a way to prevent overfeeding of chemical due to a trapped "dead" sample.



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